

WHAT IS CLAIMED IS:

1. A method of manufacturing a semiconductor device comprising:
 - (a) a first wiring extending in a first direction; and
 - (b) a second wiring connected to the first wiring through a connection and extending in a second direction orthogonal to the first direction, the second wiring having a surplus portion projecting from the connection in a direction opposite to the second direction,

wherein the first wiring and the second wiring are arranged such that,

 - (c) a center of the connection is offset in the second direction from a center of the first wiring, and
 - (d) a projecting portion of the first wiring is disposed under the connection.
2. A method of manufacturing a semiconductor device, comprising:
 - (a) a first wiring and a second wiring extending in a first direction and adjacent to each other;
 - (b) a third wiring connected to the first wiring through a first connection and extending in a direction opposite to the second wiring and along a line orthogonal to the first direction, the third wiring having a first surplus portion projecting in the direction of the second wiring from the first connection; and

(c) a fourth wiring connected to the second wiring through a second connection and extending along said line in a direction opposite to the first wiring, the fourth wiring having a second surplus portion projecting in the direction of the first wiring from the second connection,

wherein the first, second, third, and fourth wirings are arranged such that,

(d) a center of the second connection is offset in a direction opposite to the first wiring from a center of the second wiring, and

(e) a projecting portion of the second wiring is disposed under the second connection.

3. The method according to claim 2, wherein the spacing between a center of the first wiring and that of the second wiring is a unit distance in wiring.

4. The method according to claim 2, wherein a fifth wiring is disposed in parallel with the third wiring.

5. The method according to claim 4, wherein the distance between the third and the fifth wirings is smaller than the distance between the first and the second wirings.

6. The method according to claim 4 or claim 5, wherein the distance between the first and the second wirings is larger than a minimum machining size.

7. The method according to any of claims 4 to 6, wherein the width of each of the first and the second surplus

portions is smaller than the difference ($P_0 - P_1$) between a distance P_1 between a center of the third wiring and that of the fifth wiring and a distance P_0 between a center of the first wiring and that of the second wiring, and is larger than one half of the difference between the distances P_1 and P_0 .

8. The method according to claim 2, wherein the width of each of the first and the second wiring and the width of each of the first and the second connection are almost equal to each other.

9. The method according to claim 2,

wherein a MISFET underlies the first and the second wirings, and

wherein a gate electrode of the MISFET is disposed in the first direction between the first and the second wirings.

10. The method according to claim 2,

wherein a MISFET underlies the first and the second wirings, and

wherein the first or the second wiring is connected to a source and a drain, or a gate electrode, of the MISFET.

11. The method according to claim 2, wherein a center of the first connection is disposed on a center of the first wiring.

12. The method according to claim 2,

(f) wherein a center of the first connection is offset from a center of the first wiring in a direction opposite to the second wiring, and

(g) wherein a projecting portion of the first wiring is disposed under the first connection.

13. A method of manufacturing a semiconductor device, comprising the steps of:

(a) disposing a first wiring and a second wiring extending in a first direction and being adjacent to each other;

(b) disposing a third wiring being connected to the first wiring through a first connection and extending in a second direction orthogonal to the first direction and in opposition to the second wiring, the third wiring having a first surplus portion projecting in the direction of the second wiring from the first connection;

(c) disposing a fourth wiring being connected to the second wiring through a second connection and extending in the second direction and in opposition to the first wiring, the fourth wiring having a second surplus portion projecting in the direction of the first wiring from the second connection;

(d) determining whether the third and the fourth wiring are positioned on one and same line and whether the distance between the first and the second surplus portions is a predetermined distance or less;

- (e) if the distance between the first and the second surplus portions is the predetermined distance or less,
- (f) displacing a center of the second connection from a center of the second wiring in a direction opposite to the first wiring; and
- (g) disposing a projecting portion of the second wiring under the second connection.

14. The method according to claim 13, wherein the spacing between a center of the first wiring and that of the second wiring is a unit distance in wiring.

15. The method according to claim 13, wherein a fifth wiring is disposed in parallel with the third wiring.

16. The method according to claim 16, wherein the distance between the third and the fifth wirings is smaller than the distance between the first and the second wirings.

17. The method according to claim 15, wherein the distance between the first and the second wirings is larger than a minimum machining size.

18. The method according to any of claims 15 to 17,
wherein the width of each of the first and the second surplus portions is smaller than the difference ($P_0 - P_1$) between a distance P_1 between a center of the third wiring and that of the fifth wiring and a distance P_0 between a center of the first wiring and that of the second wiring, and is larger than one half of the difference between the

distances P1 and P0.

19. The method according to claim 13, wherein the width of each of the first and the second wirings and the width of each of the first and the second connections are almost equal to each other.

20. The method according to claim 13,

wherein a MISFET underlies the first and the second wirings, and

wherein a gate electrode of the MISFET is disposed in the first direction between the first and the second wirings.

21. The method according to any of claims 13 to 20,

wherein a MISFET underlies the first and the second wirings, and

wherein the first or the second wiring is connected to a source and a drain, or a gate electrode, of the MISFET.

22. The method according to claim 13, wherein a center of the first connection is disposed on a center of the first wiring.

23. The method according to claim 13, comprising the steps of:

(h) disposing a center of the first connection by offsetting from a center of the first wiring in a direction opposite to the second wiring; and

(i) disposing a projecting portion of the first wiring

under the first connection.

24. A method of manufacturing a semiconductor device,
comprising the steps of:

disposing:

- (a) a first wiring extending in a first direction;
- (b) a connection on the first wiring; and
- (c) a terminal on the connection extending in a second
direction orthogonal to the first direction and having a
surplus portion, the surplus portion projecting from the
connection in a direction opposite to the second direction,
and
- (d) disposing a second wiring in the second direction from
the terminal.

25. A method of manufacturing a semiconductor device,
comprising the steps of:

- (a) defining a first layout line of a first wiring layer
extending in a first direction and a second layout line of
a second wiring layer extending in a second direction
orthogonal to the first direction;
- (b) disposing virtually a first wiring along the first
layout line, the first wiring having projecting portions
respectively on both sides of an intersecting point of the
first and the second layout lines;
- (c) disposing a second wiring along the second layout
line;

- (d) disposing a connection in an overlapped region of patterns of the first and the second wirings; and
- (e) defining a pattern of the first wiring with the projecting portions of the first wiring disposed only under the connection.

26. A semiconductor device comprising:

- (a) a first wiring extending in a first direction; and
- (b) a second wiring connected to the first wiring through a connection and extending in a second direction orthogonal to the first direction, the second wiring having a surplus portion projecting in a direction opposite to the second direction,
- (c) the connection being formed so that a center thereof is offset in the second direction from a center of the first wiring, and
- (d) the first wiring having a projecting portion formed under the connection.

27. A semiconductor device comprising:

- (a) a first wiring and a second wiring extending in a first direction and being adjacent to each other;
- (b) a third wiring being connected to the first wiring through a first connection and extending in a second direction orthogonal to the first direction and in opposition to the second wiring, the third wiring having a first surplus portion projecting in the direction of the

second wiring from the first connection; and

(c) a fourth wiring being connected to the second wiring through a second connection and extending in the second direction and in opposition to the first wiring, the fourth wiring having a second surplus portion projecting in the direction of the first wiring from the second connection;

(d) the second connection being formed so that a center thereof is offset from a center of the second wiring in a direction opposite to the first wiring, and

(e) the second wiring having a projecting portion formed under the second connection.

28. The semiconductor device according to claim 27, wherein the distance between a center of the first wiring and that of the second wiring is a unit distance in wiring.

29. The semiconductor device according to claim 27, further comprising a fifth wiring formed in parallel with the third wiring.

30. The semiconductor device according to claim 29, wherein the distance between the third and the fifth wirings is smaller than the distance between the first and the second wirings.

31. The semiconductor device according to claim 29, wherein the distance between the first and the second wirings is smaller than a minimum machining size.

32. The semiconductor device according to claim 29,

wherein the width of each of the first and the second surplus portions is smaller than the difference (P0-P1) between a distance P1 between a center of the third wiring and that of the fifth wiring and a distance P0 between a center of the first wiring and that of the second wiring, and is larger than one half of the difference between the distances P1 and P0.

33. The semiconductor device according to claim 27, wherein the width of each of the first and the second wirings and the width of each of the first and the second connections are almost equal to each other.

34. The semiconductor device according to claim 27, further comprising a MISFET which underlies the first and the second wirings, a gate electrode of the MISFET being disposed in the first direction between the first and the second wirings.

35. The semiconductor device according to claim 27, further comprising a MISFET which underlies the first and the second wirings,

wherein the first or the second wiring is connected to a source and a drain, or a gate electrode, of the MISFET.

36. The semiconductor device according to claim 27, wherein a center of the first connection is disposed on a center of the first wiring.

37. The semiconductor device according to claim 27,

wherein:

- (f) the first connection is formed so that a center thereof is offset from a center of the first wiring in a direction opposite to the second wiring; and
- (g) the first wiring has a projecting portion formed under the first connection.

38. A semiconductor device comprising:

- (a) a first wiring extending in a first direction and having at least one projecting portion; and
- (b) a second wiring connected to the first wiring through a first connection and extending from the first connection in a second direction orthogonal to the first direction, the second wiring having a first surplus portion projecting from the first connection in a direction opposite to the second direction,

the first connection being formed on the first wiring and the projecting portion thereof.

39. A semiconductor device comprising:

- (a) a first wiring extending in a first direction and having at least one projecting portion;
- (b) a second wiring connected to the first wiring through a first connection and extending from the first connection in a second direction orthogonal to the first direction, the second wiring having a first surplus portion projecting from the first connection in a direction opposite to the

second direction; and

(c) a third wiring connected to the first wiring through a second connection and extending from the second connection in a second direction orthogonal to the first direction, the third wiring having a second surplus portion projecting from the second connection in a direction opposite to the second direction,

the first connection being formed on the first wiring, and the second connection being formed on the first wiring and the projecting portion thereof.